

FIG. 1

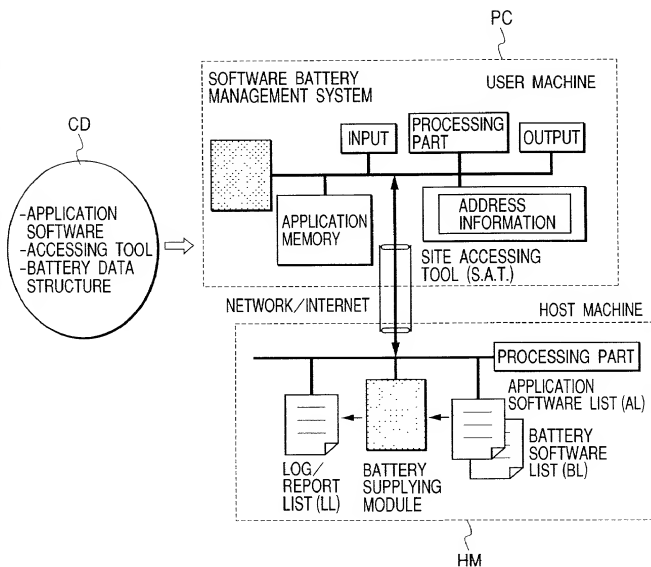
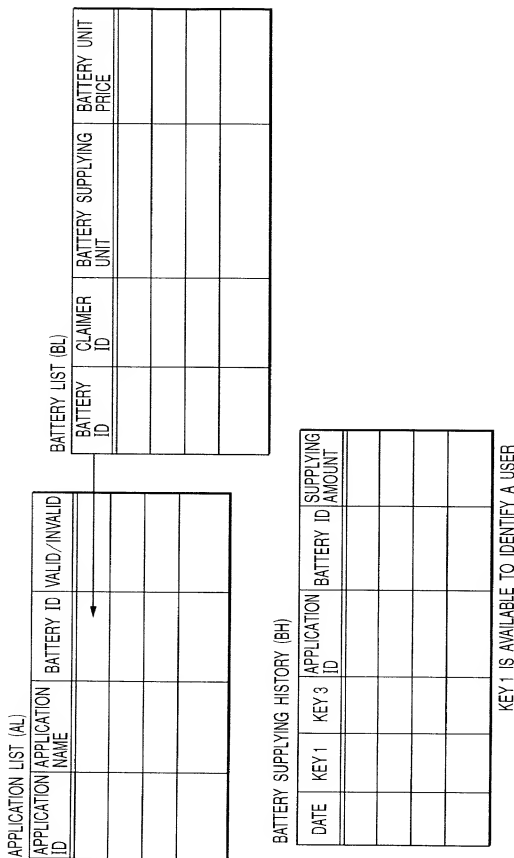


FIG. 2



```
graph TD
    START([START]) --> 301[ACCESS TO HOST MACHINE]
    301 --> 302[RECEIVE BATTERY LIST AND KEY 1 FROM HOST MACHINE]
    302 --> 303[REFORM BATTERY LIST WITH CONFIRMING BATTERY MANAGEMENT SYSTEM WHETHER THE SYSTEM HAS A BATTERY AND HOW MUCH POWER THE BATTERY HAS]
    303 --> 304[INDICATE THE REFORMED BATTERY LIST]
    304 --> 305[SELECT BATTERY AND POWER AMOUNT TO BE CHARGED IN THE BATTERY FROM BATTERY LIST]
    305 --> 306{CANCEL ?}
    306 -- YES --> B1((B))
    306 -- NO --> 307[TRANSMIT BATTERY ISSUANCE REQUEST AND KEY 1 AND KEY 2 TO HOST MACHINE]
    307 --> A1((A))
    A1 --> 308[RECEIVE ADDITIONAL BATTERY INFORMATION FROM BATTERY]
    308 --> 309[CHARGE BATTERY BY SENDING THE ADDITIONAL BATTERY INFORMATION TO SOFTWARE BATTERY MANAGEMENT SYSTEM]
    309 --> 310[CHARGE CONFIRMATION FROM SOFTWARE BATTERY MANAGEMENT SYSTEM]
    310 --> 311[TRANSMIT CHARGE CONFIRMATION INFORMATION TOGETHER WITH KEY 1 TO HOST MACHINE]
    311 --> 312[RECEIVE KEY 3 FROM HOST MACHINE]
    312 --> 313[INDICATION BY INTEGRATION OF CHARGE CONFIRMATION INFORMATION, KEY 1 AND KEY 3]
    313 --> B2((B))
    B2 --> 314[FINISH A CONNECTION TO HOST MACHINE]
    314 --> END([END])
```

FIG. 4

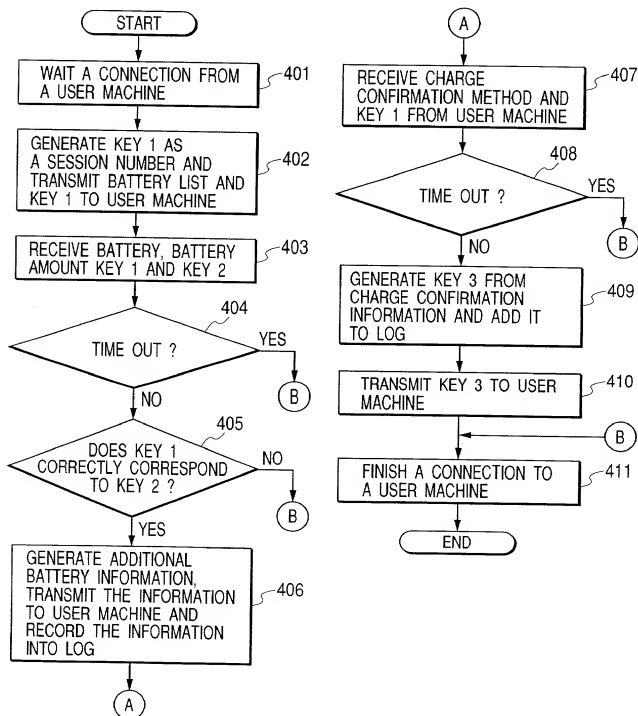


FIG. 5

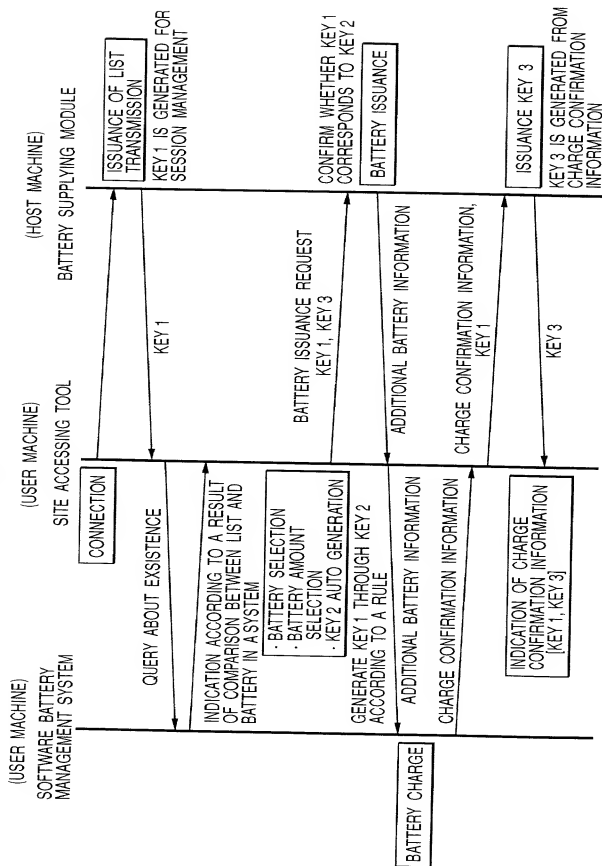


FIG. 6

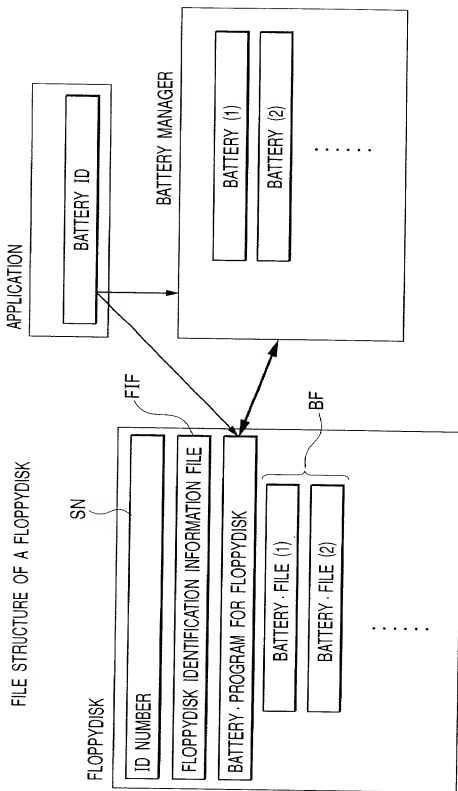


FIG. 7

OUTLINE OF ACTION OF BATTERY
PROGRAM FOR FLOPPYDISK

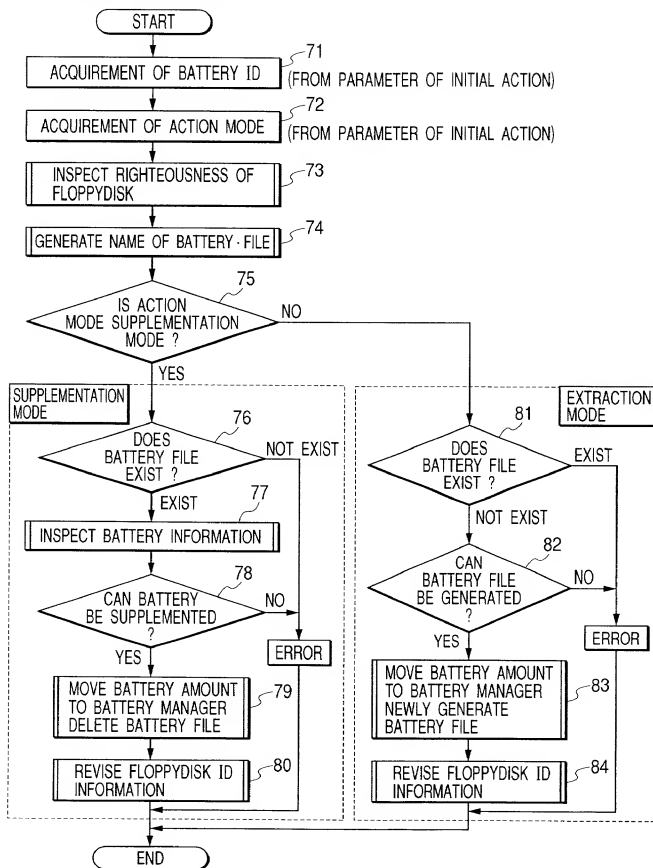
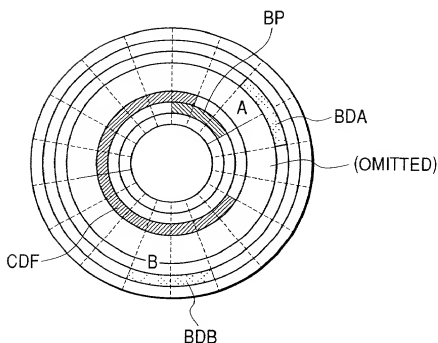


FIG. 8

FD FOR BATTERY



BATTERY MANAGEMENT DATA FORMAT

| |
|---|
| SERIAL NUMBER OF FLOPPYDISK |
| FINALLY OPERATED DATE/TIME INFORMATION |
| FINALLY OPERATED BATTERY ID |
| FINALLY OPERATED BATTERY SUMMARY *1 |

* 1: NUMERAL DATA LIKE CHECK
SUM TO CHECK IF BATTERY
DATA IS NOT CHANGED

BATTERY DATA FORMAT

| |
|---|
| IDENTIFICATION INFORMATION OF BATTERY TYPE *2 |
| BATTERY AMOUNT (INTEGER) *2 |
| IDENTIFICATION FLAG OF POSSIBLE TO CHARGE OR IMPOSSIBLE TO CHARGE |
| IDENTIFICATION FLAG OF ATTACHABLE OR DETACHABLE |
| ESTIMATION VALUE OF REMAINING USABLE TIME/ NUMBER OF TIME |

* 2: IT IS POSSIBLE TO ARRANGE
TYPE AND AMOUNT OF
BATTERY IN A VALUE

VIEW 1



VIEW 2



VIEW 3



VIEW 4



VIEW 5

<CONSUMPTION ORDER>

CONSUME POWER FROM NORMAL BATTERY

☐ GENERATE OPERATION HISTORY FILE

DELETE OPERATION HISTORY FILE

CLOSE

HELP

VIEW 6

| |
|-----------------|
| GRAPHIC DISPLAY |
| TEXT DISPLAY |
| NOT DISPLAYED |

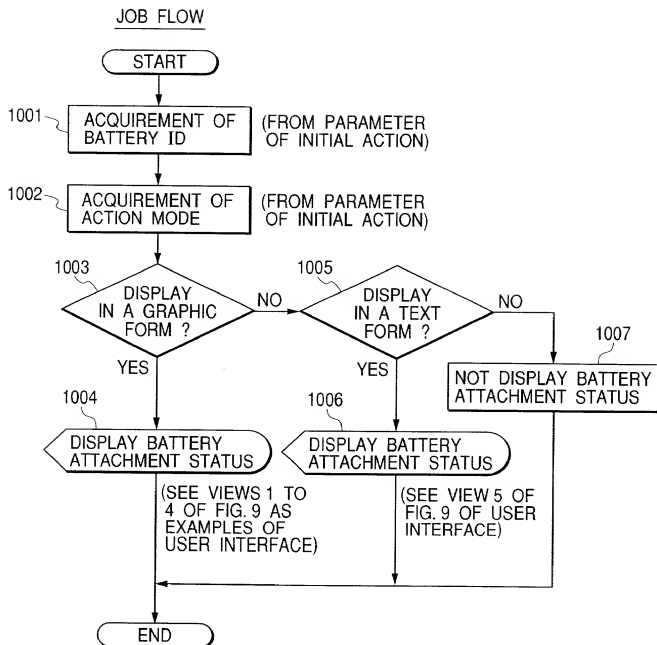
FIG. 10

FIG. 11

VIEW EXAMPLE

VIEW 1

ESTIMATION DISPLAY VIEW

| <STATUS OF BATTERY ATTACHMENT> | | | | |
|--------------------------------|-----------------|-----------|-----------------|---|
| TYPE | WITH OR WITHOUT | REMAINING | REMAINING TIME | PROCESSING |
| OR TEST | W | 10unit | xx MINUTES LEFT | <input type="checkbox"/> CHARGE <input type="checkbox"/> DETACH |
| NORMAL | W | 100unit | xx MINUTES LEFT | <input type="checkbox"/> CHARGE <input type="checkbox"/> DETACH |
| NOT RESTRICTED | W/O | | | <input type="checkbox"/> CHARGE <input type="checkbox"/> DETACH |

<CONSUMPTION ORDER>
 CONSUME POWER FROM NORMAL BATTERY
☐ GENERATE OPERATION HISTORY FILE

BATTERY DATA FORMAT


| |
|---|
| IDENTIFICATION INFORMATION OF BATTERY TYPE *2 |
| BATTERY AMOUNT (INTEGER) *2 |
| IDENTIFICATION FLAG OF POSSIBLE TO CHARGE OR IMPOSSIBLE TO CHARGE |
| IDENTIFICATION FLAG OF ATTACHABLE OR DETACHABLE |
| ESTIMATION VALUE OF REMAINING USABLE TIME/NUMBER OF TIME *3 |

*2: IT IS POSSIBLE TO ARRANGE TYPE AND AMOUNT OF BATTERY IN A VALUE

*3: CALCULATED AND REVISED ACCORDING TO SUMMARY FILE OF OPERATION HISTORY INFORMATION ACCUMULATED IN MAIN BODY

VIEW 2

NOTICE OF REMAINING AMOUNT DISPLAY VIEW

| |
|--|
|  NOW USING BATTERY WILL BE RUN DOWN BY REMAINING xx TIMES |
| <input type="button" value="CLOSE"/> <input type="button" value="HELP"/> |

OPERATION HISTORY INFORMATION ACCUMULATED IN A SYSTEM

<SPECIFIED DATA FILE>

| |
|-------------------------------------|
| BATTERY ID |
| OPERATION START TIME/DATE |
| SOFTWARE OPERATION FINISH TIME/DATE |
| OPERATION TIME |
| OPERATION UNIT NUMBER |

<SUMMARY DATA FILE>

| |
|-----------------------------------|
| BATTERY ID |
| ACCUMULATED OPERATION TIME |
| ACCUMULATED OPERATION UNIT NUMBER |

FUNCTION ESTIMATED OPERATION POSSIBLE TIME/NUMBER
OF TIME FROM REMAINING AMOUNT OF BATTERY

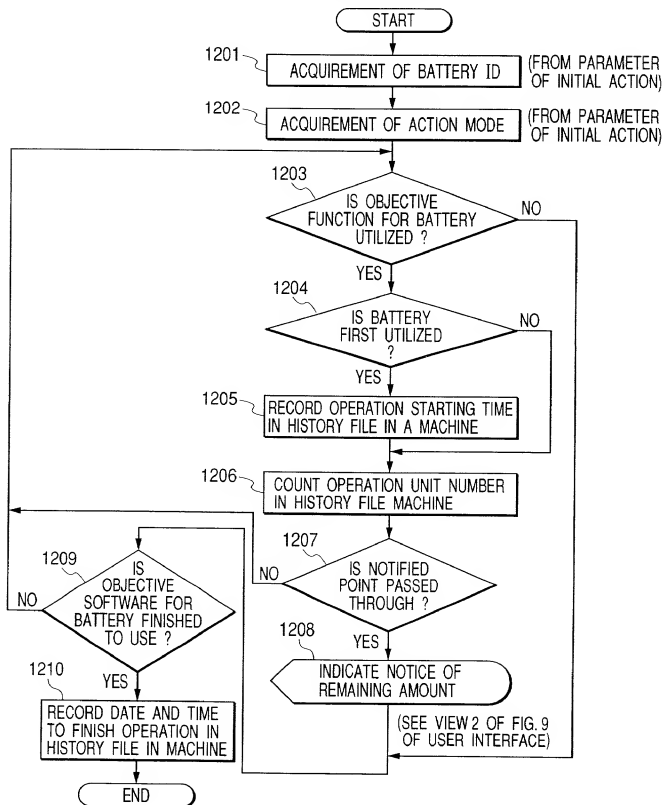
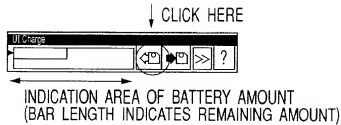
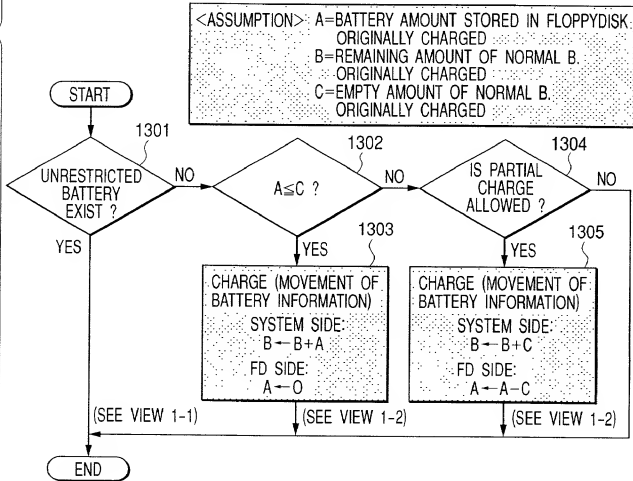


FIG. 13



IN CASE OF CHARGING
OF NORMAL BATTERY



VIEW 1-1
INDICATE A WINDOW
TO EXPLAIN IMPOSSIBLE
TO CHARGE

THIS APPLICATION CAN NOT
CHARGE NORMAL BATTERY
BECAUSE UNRESTRICTED
BATTERY IS ATTACHED

OK

HELP

VIEW 1-2
INDICATE ANIMATION THAT
LINES ON BATTERY ROTATES

NORMAL BATTERY UNDER
CHARGING



CANCEL

VIEW 1-3
INDICATE BATTERY OF
FULL CHARGED CONDITION

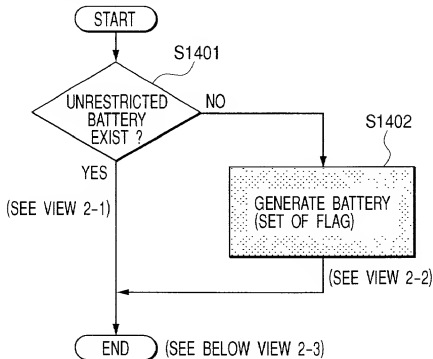


NORMAL BATTERY CHARGE
COMPLETION

OK

FIG. 14

IN CASE OF CHARGING OF UNRESTRICTED BATTERY
 (→IN CASE OF ATTACHING UNRESTRICTED BATTERY)



VIEW 2-1
 INDICATE A WINDOW
 TO EXPLAIN THAT
 UNRESTRICTED BATTERY
 EXISTS

| | |
|--|------|
| UNRESTRICTED BATTERY IS ATTACHED IN THIS APPLICATION | |
| OK | HELP |

VIEW 2-2
 INDICATE ANIMATION THAT
 LINES ON BATTERY ROTATES

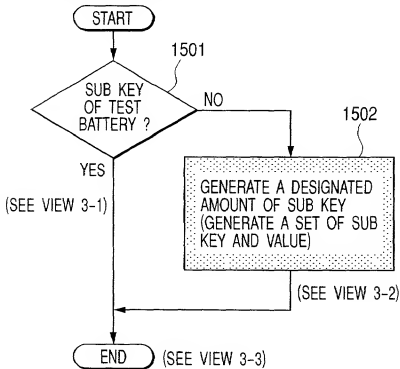
| |
|--|
| UNRESTRICTED BATTERY UNDER ATTACHED |
| |
| CANCEL |

VIEW 2-3
 INDICATE CONDITION TO
 COMPLETE ATTACHMENT

| |
|---|
| UNRESTRICTED BATTERY ATTACHMENT COMPLETION |
| |
| OK |

FIG. 15

IN CASE OF CHARGING TEST BATTERY
 (→ IN CASE OF ATTACHING TEST BATTERY)



VIEW 3-1
 INDICATE A WINDOW
 TO EXPLAIN THAT
 TEST BATTERY EXISTS

THIS TEST BATTERY IS
 ATTACHED IN THIS MACHINE
 ADDITIONAL ATTACHMENT
 CAN NOT BE ALLOWED

OK

HELP

VIEW 3-2
 INDICATE ANIMATION THAT
 LINES ON BATTERY ROTATES

TEST BATTERY UNDER
 ATTACHED



CANCEL

VIEW 3-3
 INDICATE CONDITION TO
 COMPLETE ATTACHMENT

TEST BATTERY ATTACHMENT
 COMPLETION



OK

FIG. 16

ABSOLUTE TERM TYPE

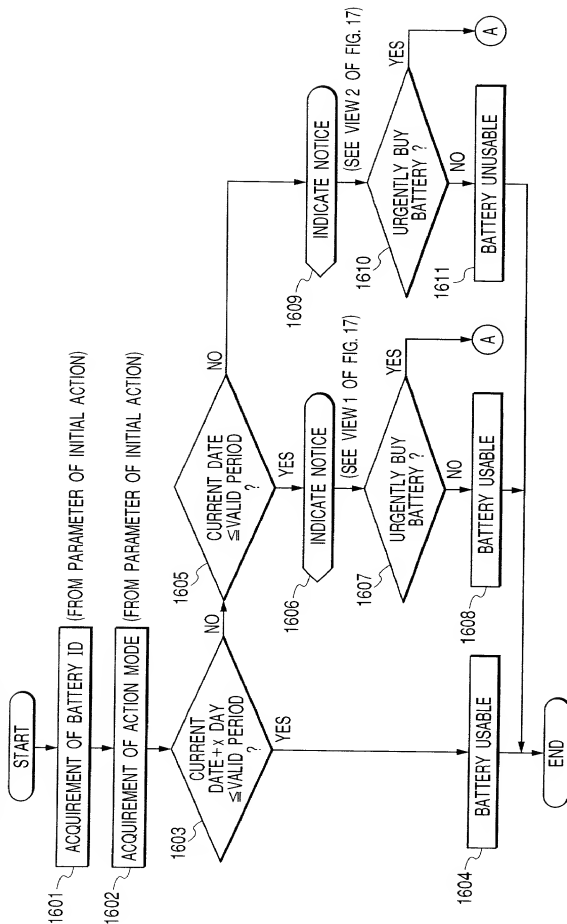


FIG. 17

VIEW 1

INDICATE NOTICE MESSAGE FOR
A PERIOD FROM x DAYS BEFORE
THE LAST DAY OF VALID PERIOD
TO THE LAST DAY

VIEW 2

INDICATE NOTICE MESSAGE
AFTER VALID PERIOD

THIS TEST BATTERY CAN NOT BE
ALLOWED TO USE BY ** **
BUY BATTERY FROM THE FOLLOWING
SITE IF YOU CONTINUE TO USE.
<http://www.ucharge.com/battery/>

BUY NOW

BUY LATER

HELP

**THE PERIOD FOR USE OF THIS TEST
BATTERY IS EXPIRED ON **, **. **.
BUY BATTERY FROM THE FOLLOWING
SITE IF YOU CONTINUE TO USE.**

BUY NOW

BUY LATER

HELP

FIG. 18

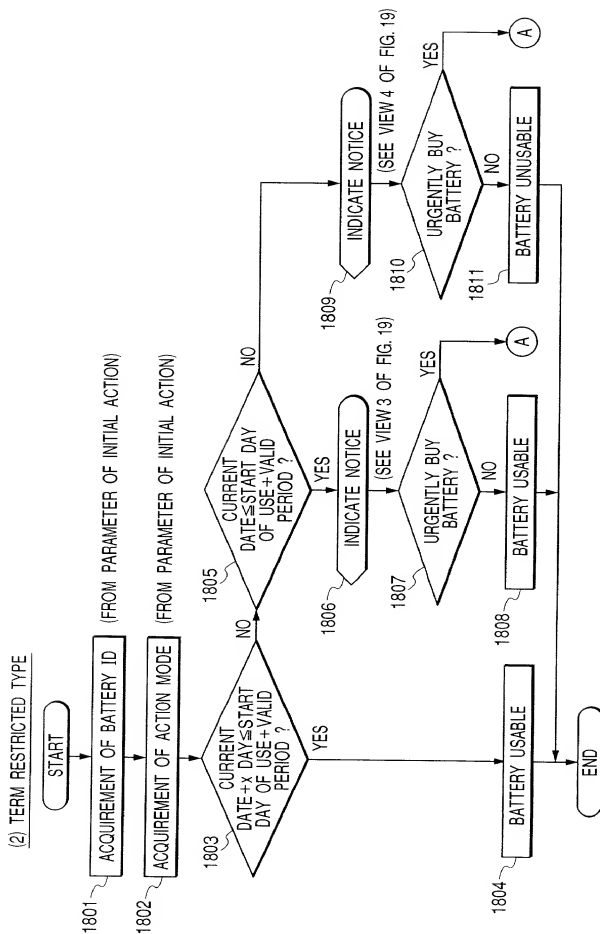


FIG. 19

VIEW 3

INDICATE NOTICE MESSAGE FOR
A PERIOD FROM x DAYS BEFORE
THE LAST DAY OF VALID PERIOD
TO THE LAST DAY

VIEW 4

INDICATE NOTICE MESSAGE
AFTER VALID PERIOD

THIS TEST BATTERY CAN NOT BE
ALLOWED TO USE BY * * , * * * .
BUY BATTERY FROM THE FOLLOWING
SITE IF YOU CONTINUE TO USE.
<http://www.ucharge.com/battery/>

BUY NOW

BUY LATER

HELP

THE PERIOD FOR USE OF THIS TEST
BATTERY IS EXPIRED ON * * , * * * .
BUY BATTERY FROM THE FOLLOWING
SITE IF YOU CONTINUE TO USE.
<http://www.ucharge.com/battery/>

BUY NOW

BUY LATER

HELP

FIG. 20

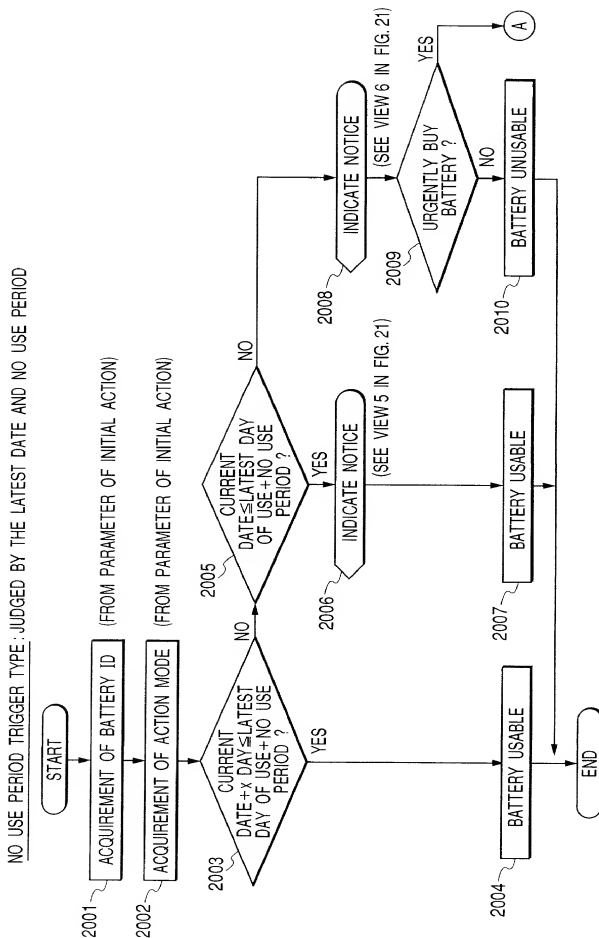


FIG. 21

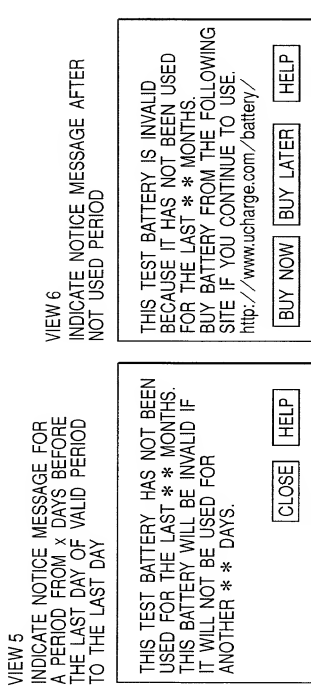


FIG. 22

JOB FLOW

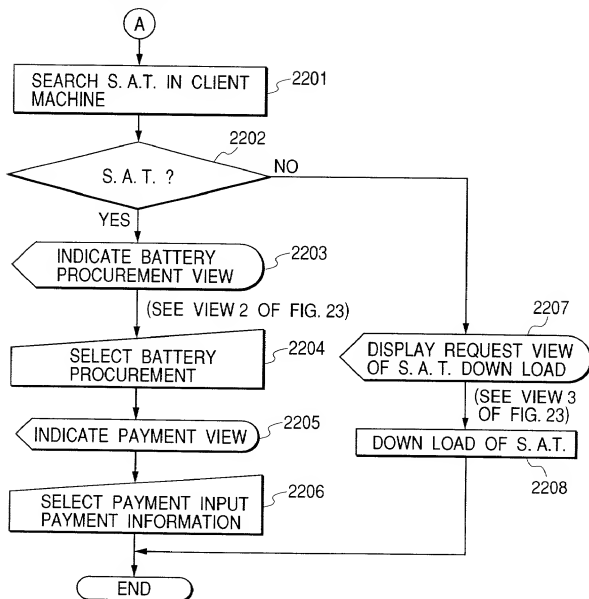



FIG. 23

VIEW 1

VIEW TO NOTIFY THAT
REMAINING AMOUNT OF
BATTERY IS 0

| | |
|---|--------------|
|  | BATTERY DOWN |
| <input checked="" type="checkbox"/> | BUY NOW |
| <input type="checkbox"/> | BUY LATER |
| <input type="button" value="OK"/> <input type="button" value="HELP"/> | |

VIEW 2

S.A.T. VIEW

| | | | | | | | | | | | | | | | | | |
|--|---|---|--|---------------------------|--|-------------------------------------|--------|---|--------|-------------------------------------|------|---|--------|-------------------------------------|--------|---|---------|
| ABCD TRADE BATTERY SALES SITE <input type="button" value="BUY"/> <input type="button" value="CONNECT"/> <input type="button" value="HALT"/> <input type="button" value="SET"/> <input type="button" value="HELP"/> <input type="button" value="END"/> | <table border="1"> <tr> <td colspan="2">DISPLAY AREA OF NOTIFICATION FROM SITE</td> </tr> <tr> <td colspan="2">BATTERY LIST DISPLAY AREA</td> </tr> <tr> <td><input type="checkbox"/> AAA NORMAL</td> <td>¥2,800</td> </tr> <tr> <td><input type="checkbox"/> AAA UNRESTRICTED</td> <td>¥9,800</td> </tr> <tr> <td><input type="checkbox"/> BBB NORMAL</td> <td>¥980</td> </tr> <tr> <td><input type="checkbox"/> BBB UNRESTRICTED</td> <td>¥4,980</td> </tr> <tr> <td><input type="checkbox"/> CCC NORMAL</td> <td>¥3,000</td> </tr> <tr> <td><input type="checkbox"/> CCC UNRESTRICTED</td> <td>¥15,000</td> </tr> </table> | DISPLAY AREA OF NOTIFICATION FROM SITE | | BATTERY LIST DISPLAY AREA | | <input type="checkbox"/> AAA NORMAL | ¥2,800 | <input type="checkbox"/> AAA UNRESTRICTED | ¥9,800 | <input type="checkbox"/> BBB NORMAL | ¥980 | <input type="checkbox"/> BBB UNRESTRICTED | ¥4,980 | <input type="checkbox"/> CCC NORMAL | ¥3,000 | <input type="checkbox"/> CCC UNRESTRICTED | ¥15,000 |
| DISPLAY AREA OF NOTIFICATION FROM SITE | | | | | | | | | | | | | | | | | |
| BATTERY LIST DISPLAY AREA | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> AAA NORMAL | ¥2,800 | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> AAA UNRESTRICTED | ¥9,800 | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> BBB NORMAL | ¥980 | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> BBB UNRESTRICTED | ¥4,980 | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> CCC NORMAL | ¥3,000 | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> CCC UNRESTRICTED | ¥15,000 | | | | | | | | | | | | | | | | |
| THE CONTENTS OF THE PRODUCT IS IN : http://www.abcde.co.jp/product/ | INQUIRY IS TO: info@abcde.co.jp | | | | | | | | | | | | | | | | |

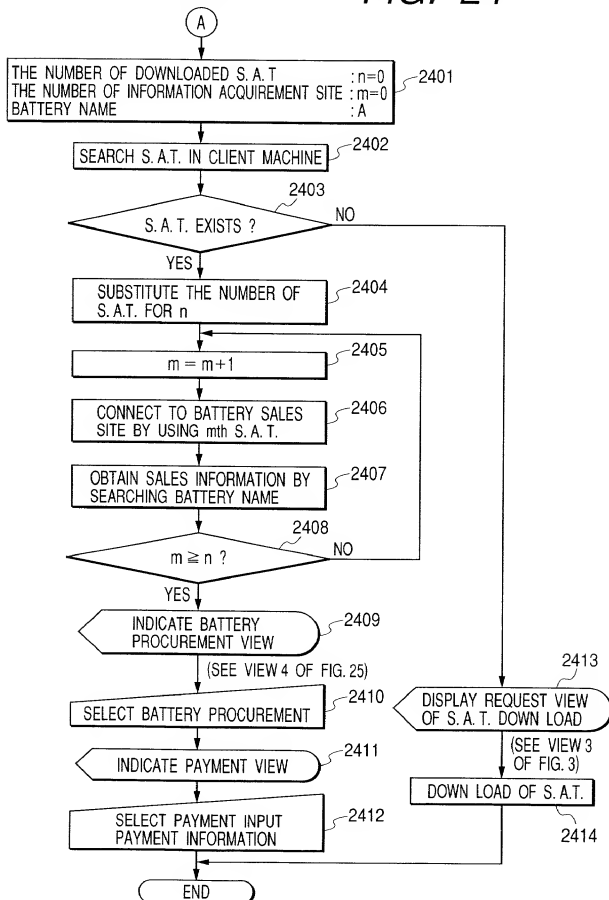
VIEW 3

REQUEST VIEW OF S.A.T. DOWN LOAD

| |
|--|
| DOWN LOAD S.A.T. FOR ABCDEFG FROM THE FOLLOWING SITE http://www.ucharge.com/sat/ |
| <input type="button" value="CANCEL"/> <input type="button" value="HELP"/> |

JOB FLOW

FIG. 24



BATTERY PROCUREMENT VIEW
LIST UP BATTERY INFORMATION
FOR PROCUREMENT SEARCHED
IN ALL S.A.T. IN CLIENT MACHINE

| SALES SITE | TYPE | PRICE |
|------------|--------------|--------|
| YYY | NORMAL | ¥5,000 |
| PPP | NORMAL | ¥4,800 |
| PPP | UNRESTRICTED | ¥9,800 |

HELP

DOWNLOAD S.A.T. FOR ABCDEFG
FROM THE FOLLOWING SITE

HELP

FIG. 27

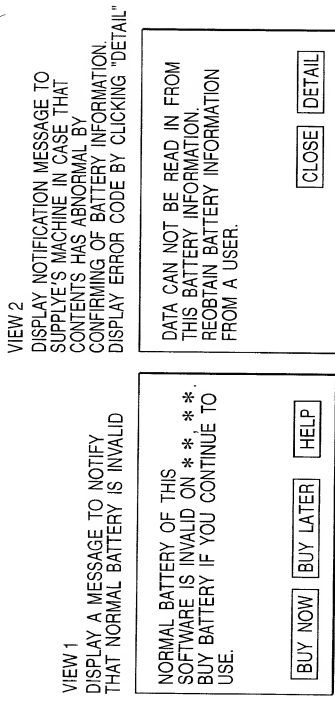


FIG. 28

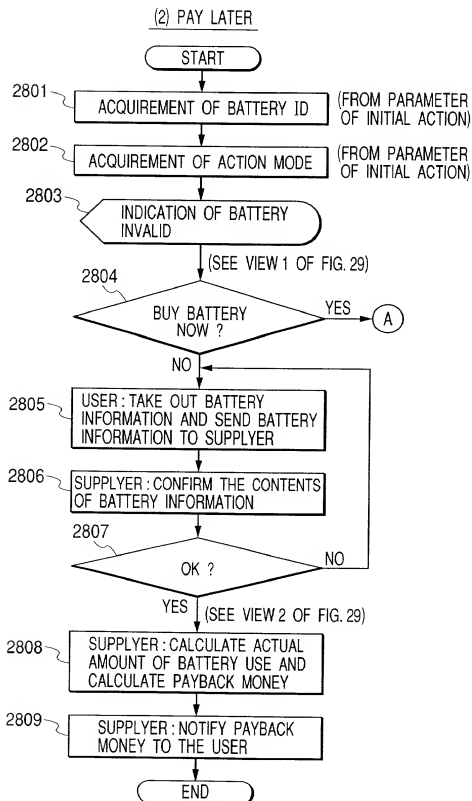


FIG. 29

VIEW 1

DISPLAY A MESSAGE TO NOTIFY
THAT NORMAL BATTERY IS INVALID

NORMAL BATTERY OF THIS
SOFTWARE IS INVALID ON **, **,
BUY BATTERY IF YOU CONTINUE TO
USE.

BUY NOW

BUY LATER

HELP

VIEW 2

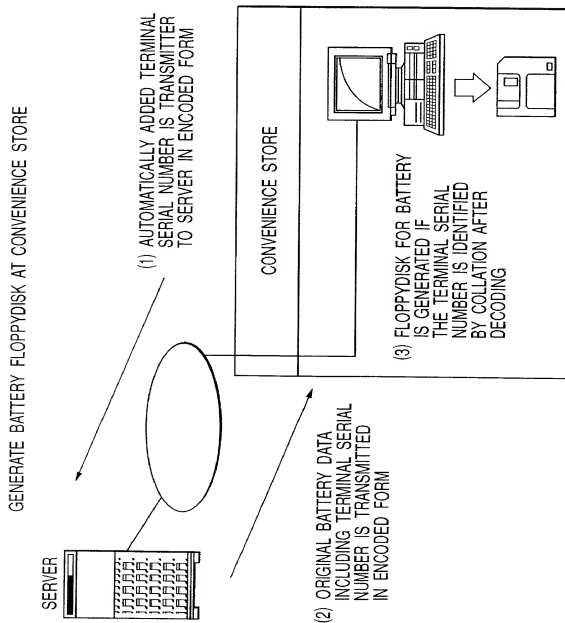
DISPLAY NOTIFICATION MESSAGE TO
SUPPLYE'S MACHINE IN CASE THAT
CONTENTS HAS ABNORMAL BY
CONFIRMING OF BATTERY INFORMATION.
DISPLAY ERROR CODE BY CLICKING "DETAIL"

DATA CAN NOT BE READ IN FROM
THIS BATTERY INFORMATION.
REOBTAIN BATTERY INFORMATION
FROM A USER.

CLOSE

DETAIL

FIG. 30



INITIAL DATA TRANSMITTED FROM TERMINAL TO SERVER

| | | | | |
|--------------------------|-------------------------|---------|--------------------|---------|
| APPLICATION TYPE CODE | CATEGORY FOR PAYMENT | (BLANK) | (PREPAID CARD NO.) | (BLANK) |
|--------------------------|-------------------------|---------|--------------------|---------|

| APPLICATION TYPE CODE | SERIAL NO. FOR TRIAL USE | CATEGORY FOR PAYMENT | NAME | (CREDIT CARD NO.) | (VALID PERIOD) |
|--------------------------|-----------------------------|-------------------------|------|-------------------|-------------------|
|--------------------------|-----------------------------|-------------------------|------|-------------------|-------------------|

| | |
|---------------------|--|
| TERMINAL SERIAL NO. | MAC ADDRESS OF LAN ADAPTER (OR TERMINAL IP ADDRESS) |
|---------------------|--|

| TERMINAL SERIAL NO. | APPLICATION TYPE CODE | KEY CODE |
|---------------------|--------------------------|----------|
|---------------------|--------------------------|----------|

| APPLICATION TYPE CODE | KEY CODE |
|--------------------------|----------|
|--------------------------|----------|

FIG. 32

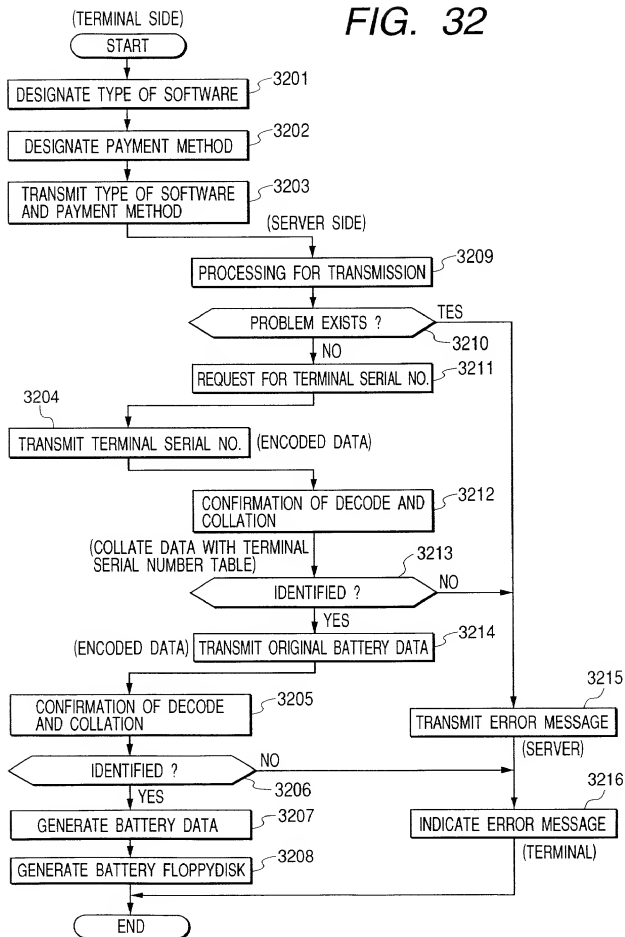


FIG. 33

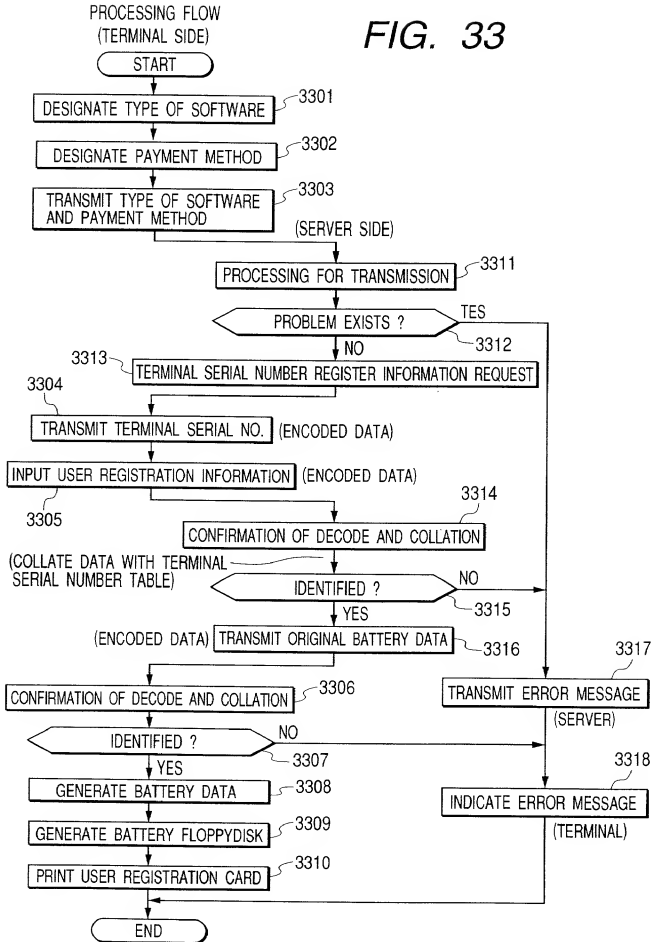


FIG. 34

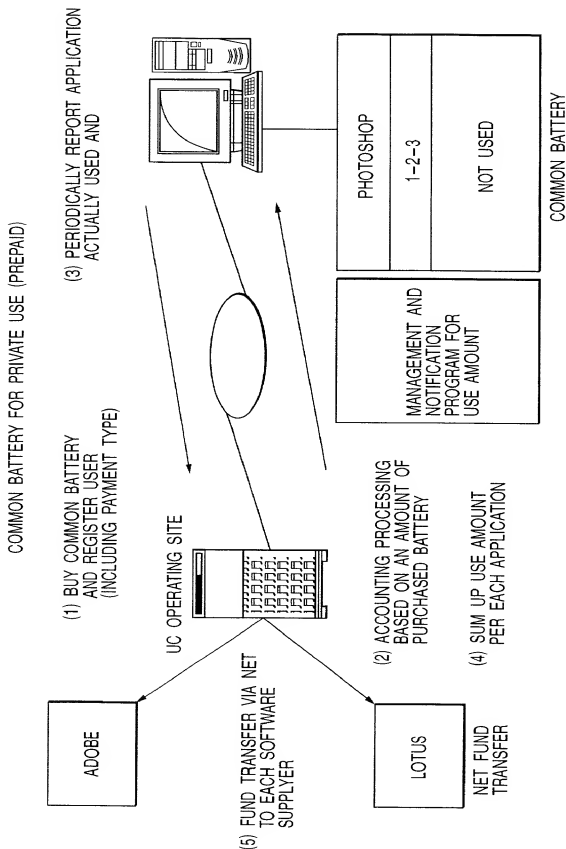
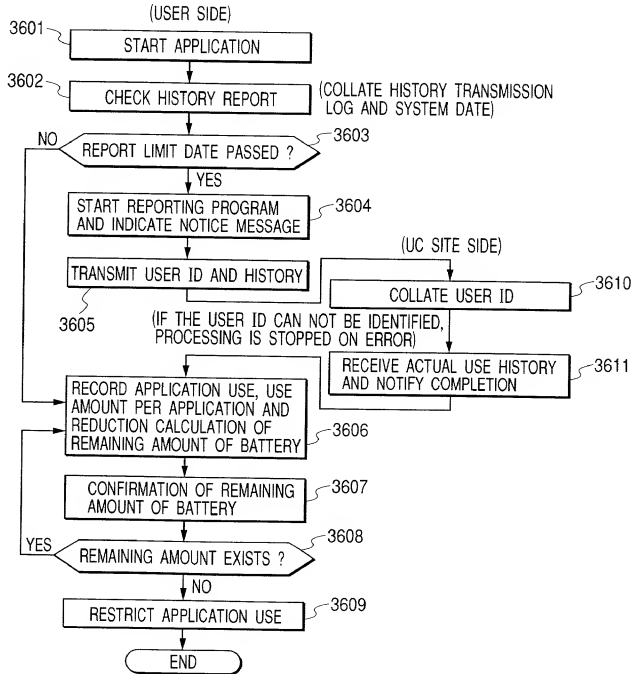


FIG. 36

2. PROCESSING UNDER USE OF APPLICATION



3. SUM-UP AND FUND TRANSFER PROCESSING OF UC SITE SIDE

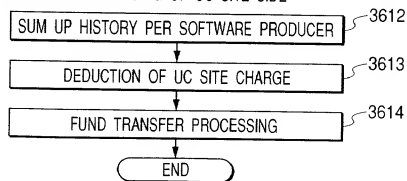


FIG. 37

HISTORY TRANSMISSION LOG

| TRANSMISSION DATE AND TIME (YEAR, MONTH, DATE, HOUR AND MINUTES) | TRANSMISSION RECORD NUMBER | PROCESSING STATUS |
|---|-------------------------------|-------------------|
|---|-------------------------------|-------------------|

APPLICATION USE HISTORY

| USER ID | APPLICATION TYPE CODE | USE AMOUNT | YEAR, MONTHS, DATE, TIME, MINUTES AND SECOND OF STARTING OF SUM-UP | YEAR, MONTHS, DATE, TIME, MINUTES AND SECOND OF FINISHING OF SUM-UP |
|---------|--------------------------|------------|---|--|
|---------|--------------------------|------------|---|--|

FIG. 38

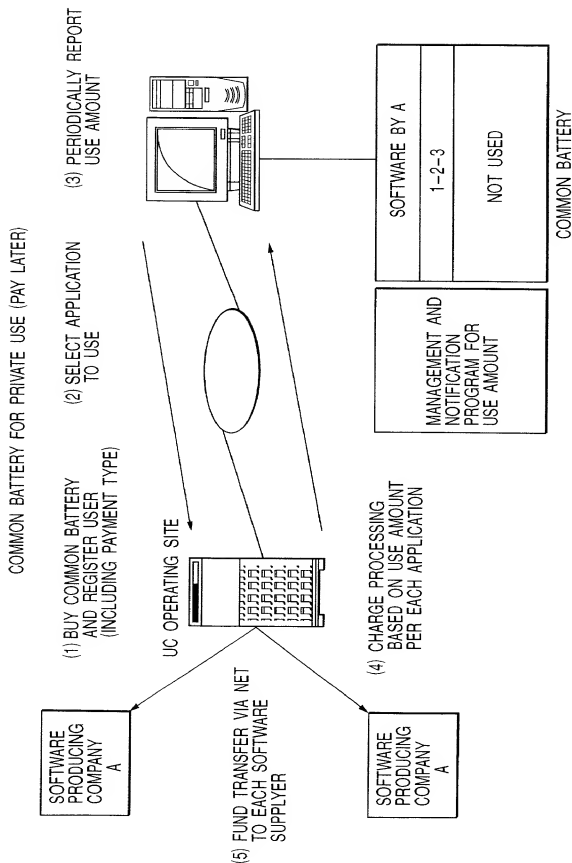


FIG. 39

PROCESSING FLOW (PAY LATER)

1. INITIAL PROCESSING

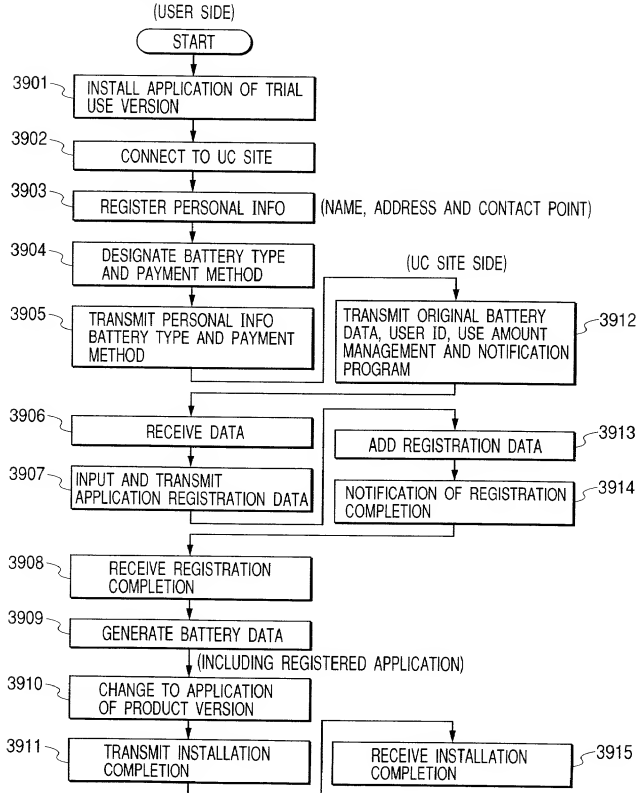


FIG. 40

2. PROCESSING UNDER USE OF APPLICATION

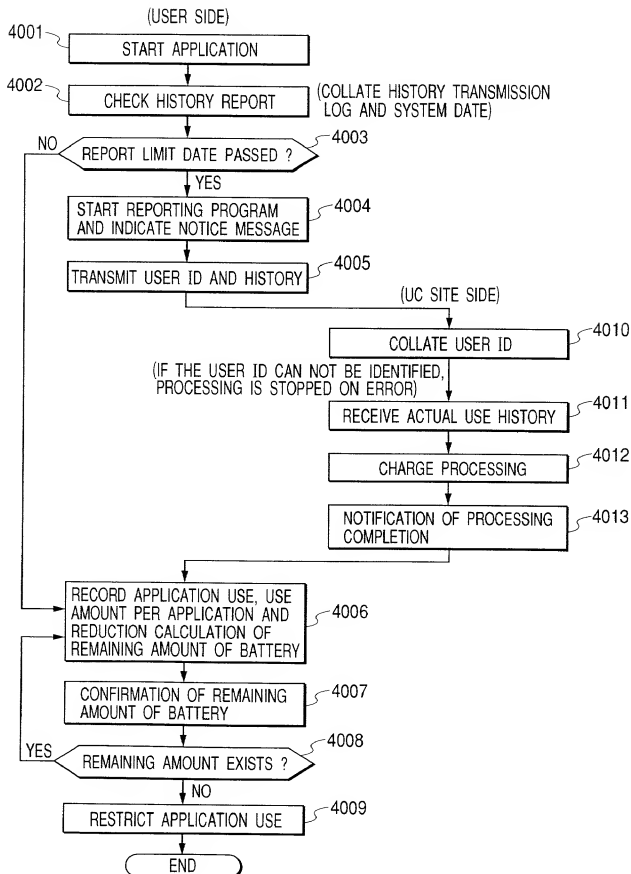


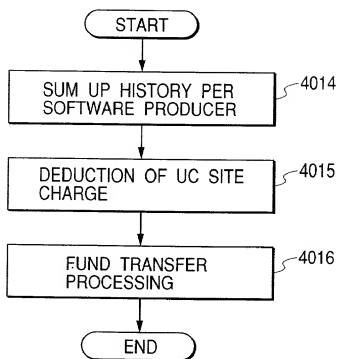
FIG. 41

FIG. 42

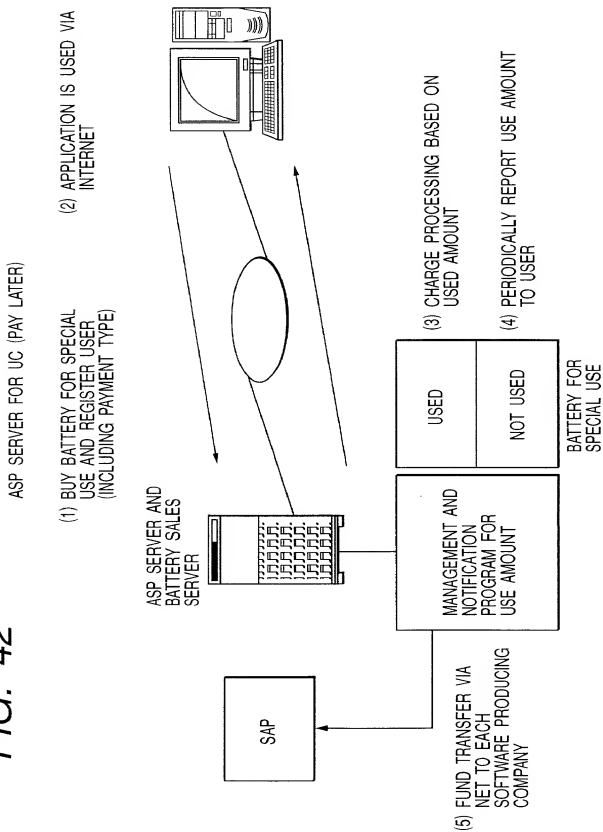


FIG. 43

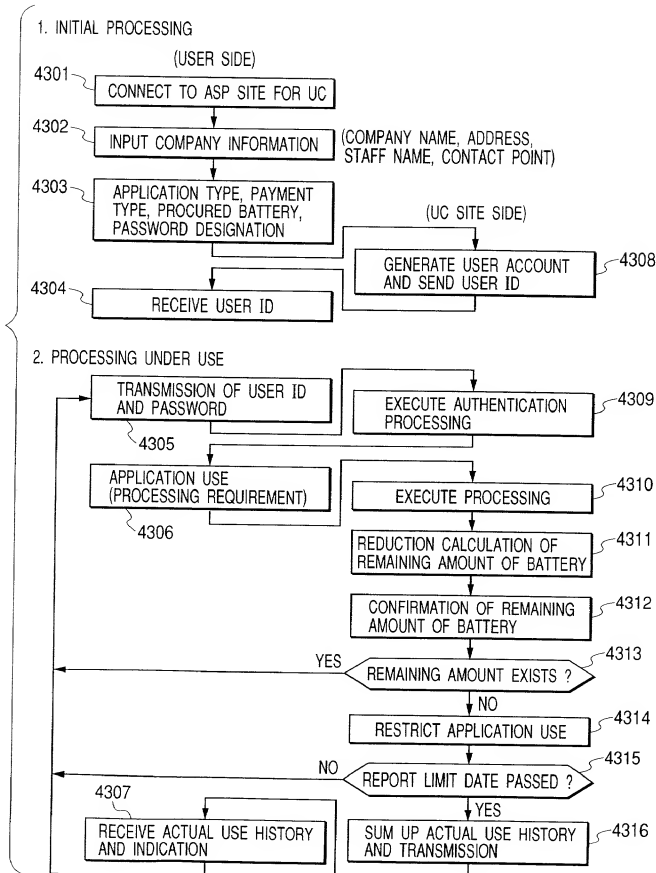


FIG. 44

APPLICATION USE HISTORY

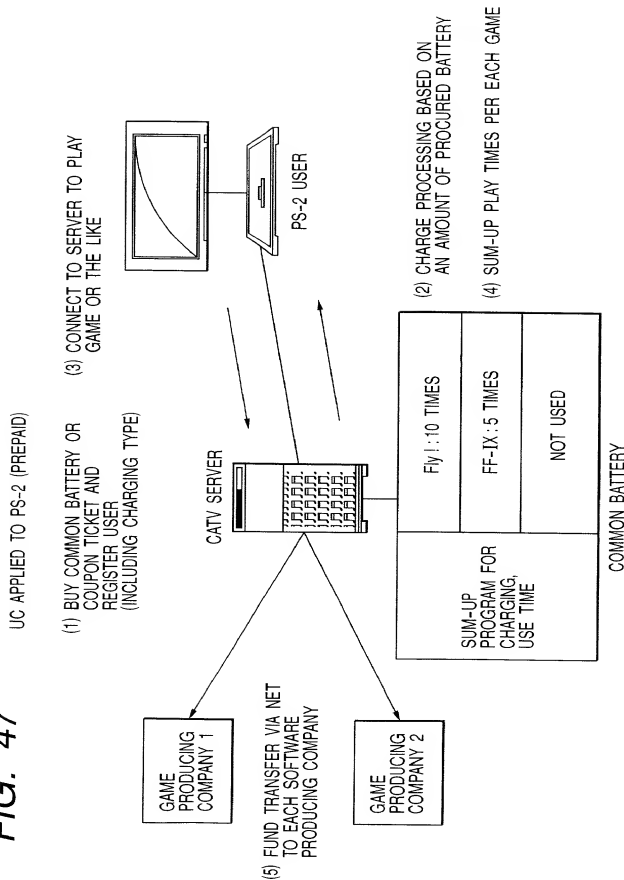
| COMPANY CODE | USER ID | | APPLICATION TYPE CODE | USE AMOUNT | YEAR, MONTHS, DATE, TIME, MINUTES AND SECOND OF STARTING OF SUM-UP | YEAR, MONTHS, DATE, TIME, MINUTES AND SECOND OF FINISHING OF SUM-UP |
|-----------------|----------------|--|--------------------------|------------|--|---|
| | PERSONAL ID | | | | | |

FIG. 45

INITIAL DATA TRANSMITTED FROM USER SIDE TO SAT SERVER

| | | | | |
|--------------------------|-------------------------|------|-------------------|----------------|
| APPLICATION TYPE CODE | CATEGORY FOR PAYMENT | NAME | (CREDIT CARD NO.) | (VALID PERIOD) |
|--------------------------|-------------------------|------|-------------------|----------------|

FIG. 47



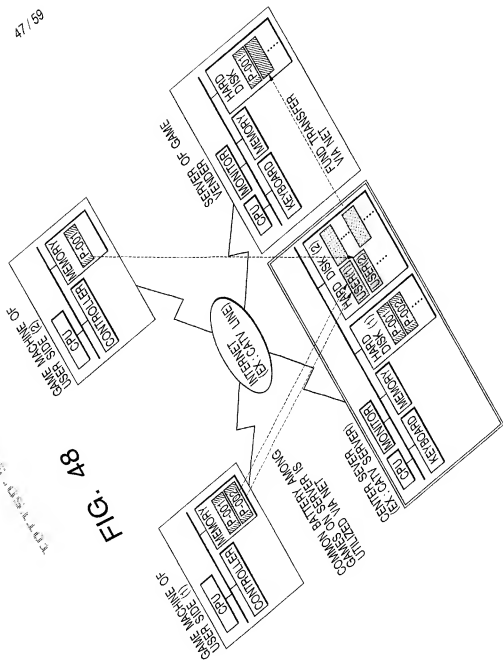


FIG. 49

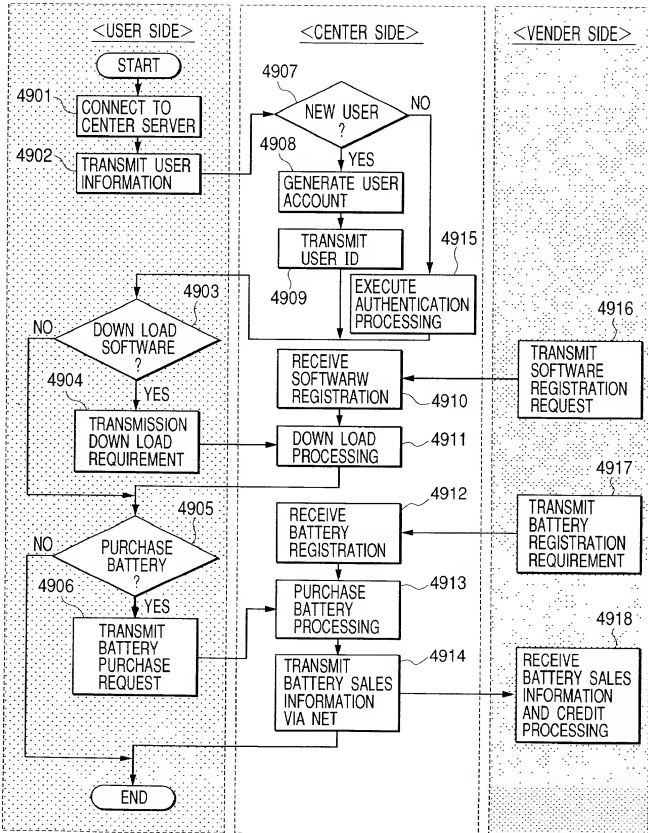
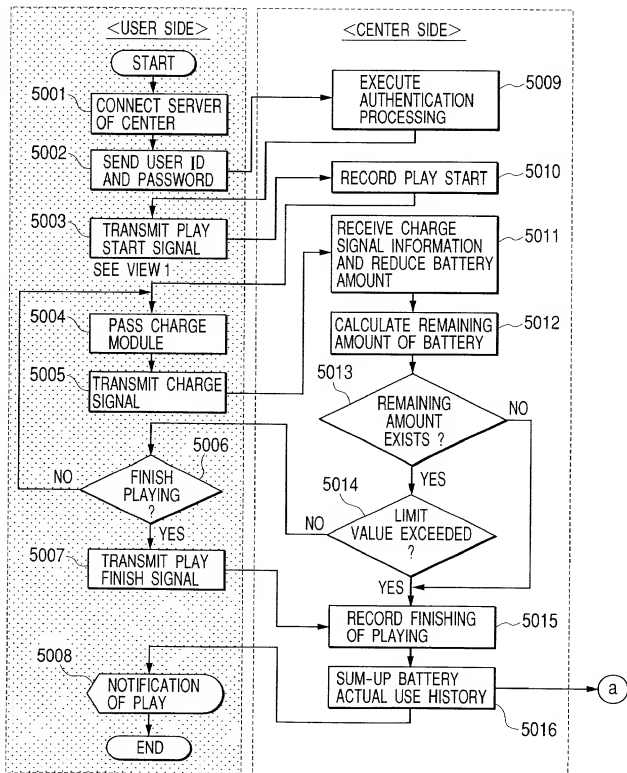
INITIAL PROCESSING
FLOW

FIG. 50A

FIG. 50

FIG. 50A | FIG. 50B

PROCESSING FLOW
UNDER PLAYING

INDICATE PLAY START

☐ TABLE TENNIS GAME
☐ (CLICK "START" TO PLAY)
☐
☐

START

☐ PREDETERMINED USE
 TIME IS EXCEEDED
☐ THE END OF TODAY'S GAME !!
☐

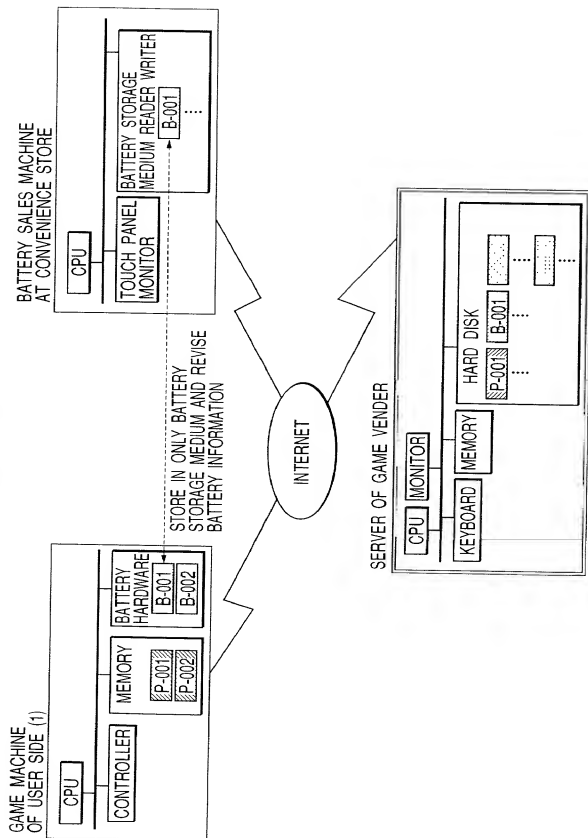
| STATUS OF USE ON *, * | TITLE | TIME | REMAINING AMOUNT OF BATTERY |
|-----------------------|-------|------|-----------------------------|
| xxx | 5 | 16 | |
| yyy | 16 | 0 | |

RETURN

```

sequenceDiagram
    participant a
    participant VendorSide as <VENDER SIDE>
    VendorSide->>a: RECEIVE BATTERY ACTUAL USE HISTORY REPORT
  
```

FIG. 51



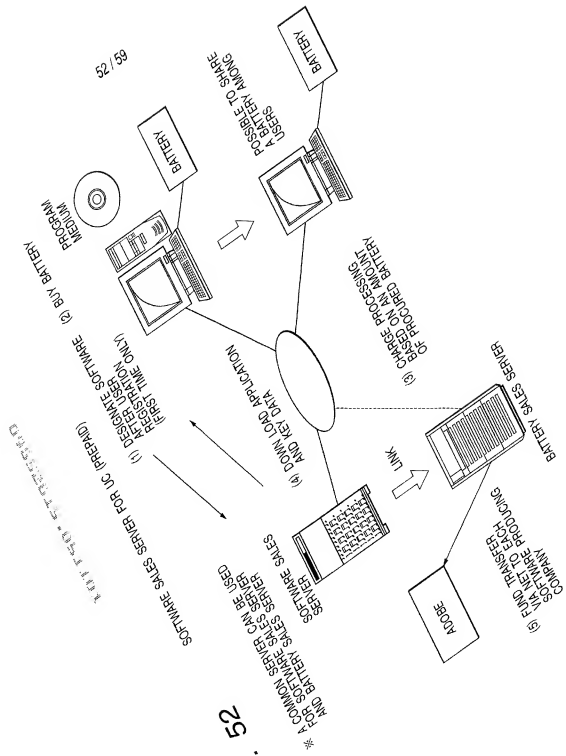


FIG. 25

52

FIG. 53

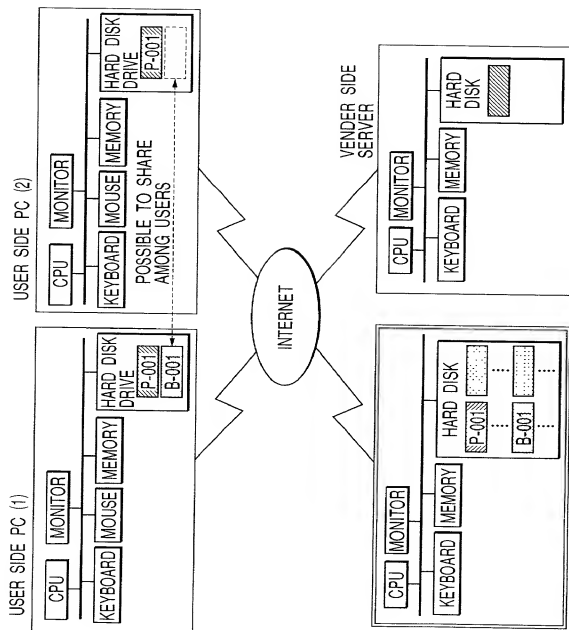


FIG. 54

PROCESSING FLOW

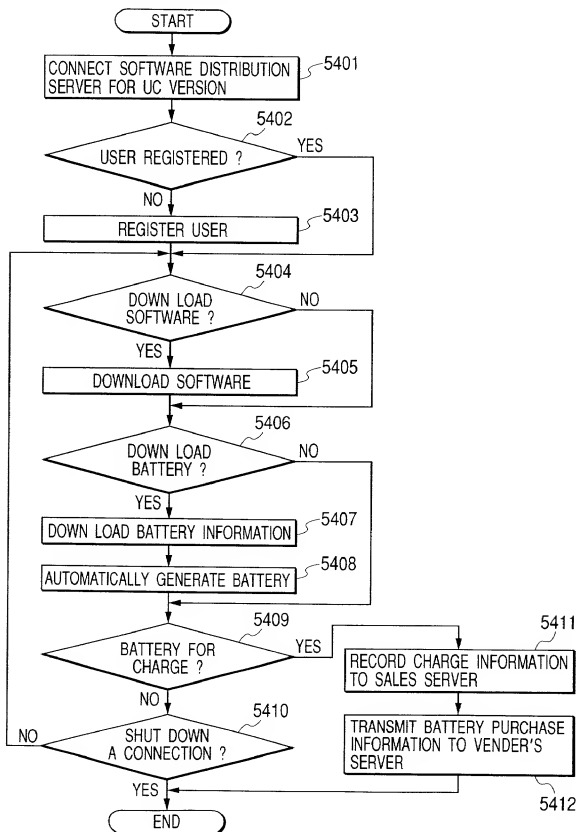


FIG. 56

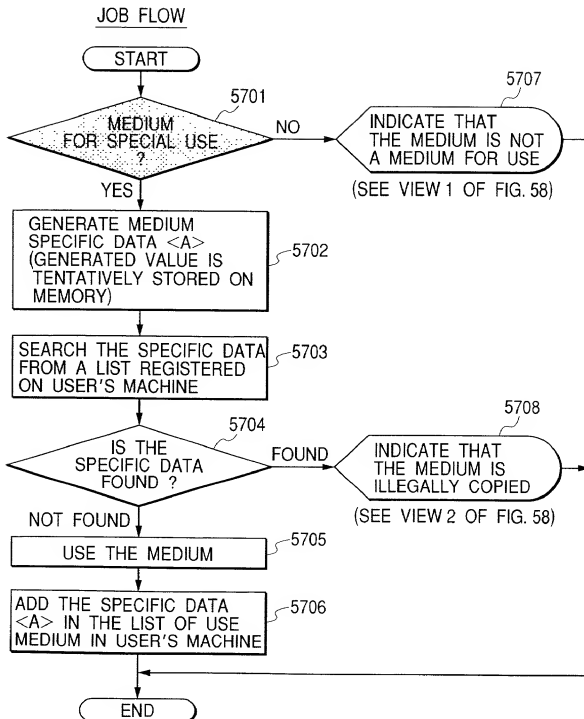
VIEW 3
EMBODIMENT IN CASE THAT
MEDIUM IS FLOPPY DISK

INSERT FD FOR SPECIAL USE
ON DRIVE

OK

HELP

FIG. 57



VIEW 1
THE EMBODIMENT IN CASE
THAT MEDIUM IS FLOPPYDISK

CLOSE HELP

THIS FD IS ONE COPIED
FROM ORIGINAL.
INSERT ORIGINAL FD.

FIG. 59

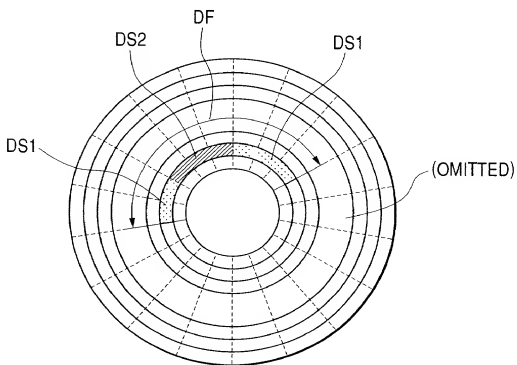


FIG. 60

CONTENTS OF MANAGEMENT FILE

| |
|---|
| A SERIAL NUMBER OF MEDIUM (A PART) |
| FORMATTED DATE INFORMATION (A PART) |
| DATE INFORMATION OF THE DATE LASTLY REVISED (A PART) |
| DUMMY DATA |
| <div style="text-align: center;"> <div style="display: inline-block; width: 100px; height: 100px; border: 1px solid black; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">DEFECTIVE AREA</div> </div> </div> |
| A SERIAL NUMBER OF MEDIUM (REMAINING PART) |
| FORMATTED DATE INFORMATION (REMAINING PART) |
| DATE INFORMATION OF THE DATE LASTLY REVISED (REMAINING PART) |
| CHECK SUM |
| DUMMY DATA |